

Department of Energy

Pacific Area Support Office P.O. Box 29939 Honolulu, HI 96820

2 JUL 1987

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Addressees

OPERATIONS PLAN 87-5, FY 1987, LLNL/BARC TO ENEWETAK AND BIKINI, AUGUST 5 - 19, 1987

The enclosed Operations Plan has been coordinated with Dr. William Robison (LLNL); BARC; Keith Coberly (USO, Kwajalein), and John Brown (DOE Coordinator, Kwajalein).

Any travel changes are to be made directly with H&N/PO, Judy Honda, phone (808) 422-9221.

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Original Signed by C. E. Schryer J. H. Dryden Director

OP-202: KH

Encl:

Operations Plan No. 87-5

John Rudolph's Files Letters- Marshall Islands-1987

Addressees

Kittie Baier, Deputy Assistant Secretary, Territorial & International Affairs, DOI

Hon. Janet McCoy, HICOM, TTPI

Hon. Oscar deBrum, Chief Secretary, REPMAR, Majuro

Hon. Charles Dominick, Minister, Foreign Affairs, Majuro

Hon. Henchy Balos, Senator, The Nitijela, Majuro

Hon. Ishmael John, Senator, The Nitijela, Majuro

Larry Morgan, Territorial & International Affairs, DOI

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C. E. Otterman, USO

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OPERATIONS PLAN 87-5 HISSION NO. 5, FY 1987

ENEWETAR AND BIRINI ATOLLS

1) BACKGROUND AND PURPOSE

Lawrence Livermore National Laboratory (LLNL) on behalf of DOE conducts terrestrial investigations to measure and analyze radionuclides in the environment at Bikini and other atolls in the Marshall Islands. From these investigations, dose assessments to man are formulated and the results are made available to the Bikinians, their Government, and other interested entities. Another major aspect of the program is to conduct experiments aimed at reducing the inventory of radionuclides in the soil so as to otherwise limit their entrance into the food chair.

The Bikini Atoll Rehabilitation Committee (BARC), established in 1982 through the Department of Interior, is authorized and funded by the U.S. Congress to study and report on the feasibility and the cost of rehabilitating Bikini Atoll. A significant task of BARC is to investigate how radioactive contamination of Bikini can be reduced while at the same time respecting the Atoll's biological and environmental integrity.

Since the scientific objectives of the LLNL and the recommendations of the BARC are so complementary and similar with respect to Bikini Atoll, the two organizations have agreed to collaborate on scientific field work on Bikini under DOE sponsorship. The mission and objectives which are for the most part, outgrowths of previous work conducted by LLNL at Bikini, are described below:

2) RESPONSIBILITIES

a) Administration and Support

The Department of Energy, through its integrated contractor, Holmes & Narver, Inc., operates a base camp on the island of Bikini, a satellite camp at Eneu Island, and a 135 foot seagoing vessel based at Kwajalein which is assigned to support missions in the field.

The DOE authority during field missions will be exercised by a Field Representative or, in his absence, by a Senior Holmes & Narver Representative, who will be responsible for overall administration and coordination of support to scientific users, and direction of all logistical management activities, including communications and safety. Day to day camp administration will be provided by the H&N Site Manager.

b) Scientific Activities and Operations

During the field mission, all scientific activities will be directed by the Party Chief. The Party Chief will request logistical and other support as needed from the DOE Representative and/or the H&N Field Representative.

c) All vessel operations at sea or within the lagoon are under the control and direction of the Captain, who will work in close coordination with the Field Representative and the Party Chief in providing mission support as requested. Final authority as to the movement of the ship and its associated small boats and/or marine activities rest with the Captain.

3) WORK TO BE PERFORMED

Bikini

- Collect plants from initial irrigation and control sites.
- 2. Collect samples from the second phase irrigation plots.
- 3. Collect well water samples from Bikini and Eneu.
- 4. Collect samples from N,P,K plot (coconut, grass, etc.).
- 5. Collect samples from the "high K" trees on Bikini and Eneu.
- 6. Fertilize appropriate "high K" trees.
- 7. Collect samples for the CE study.
- 8. Collect samples from the K rate trial experiment.
- 9. Collect samples from the super K trees.
- 10. Collect coco fronds from the excavation and control plots.
- 11. Collect samples from "clino" study.
- 12. Replant as necessary phase I irrigation plot.
- 13. Gamma Spectroscopy of all sites including permanent trees.
- 14. Collect samples from the ion penetration study.
- 15. Collect coco fluid from trees in phase II irrigation plot and neighboring trees that were not irrigated.
- 16. Collect samples from accelerated leaching experiments.
- 17. Start living wall garden root crop system.
- 18. Collect bulk soils from Bikini for lab experiments 20 gal. each for: 0-10 cm, 10-25 cm, 25-40 cm, and 40-60 cm.
- 19. Leaching of canopy: middle age and senescent leaves; intact recent litter.
- 20. Weigh crops from the food-mass production study.
- 21. Fertilize 4 breadfruit trees.

Enewetak

- Collect coconuts and soil samples from Lujor (Pearl) and Aej (Olive). These are islands we didn't have time to visit on our March-April trip.
- 2. Start fertilization of coconut trees from which we have a historical record of 137 Cs concentration. We need to demonstrate the effectiveness of potassium on reducing the uptake of 137 Cs on Enjebi Island.

Majuro

- 1. Visit agricultural station.
- 2. Visit the Talwanese demonstration farm.
- 4) PERSONNEL (See attached "AUGUST BIKINI MISSION CALENDAR")
- 5) ITINERARIES (See attached "AUGUST BIKINI MISSION CALENDAR")
- 6) TRANSPORTATION SCHEDULE
 - a) Airline of the Marshall Islands

7-22-87 (7-23-87)
Diversion
Maj-Rwaj-Enwtk-Bik-Kwaj-Maj

6-5-87 (8-6-87) Diversion Maj-Kwaj-Enwtk-Bik-Kwaj-Maj

8-19-87 (8-20-87) Diversion Maj-Kwaj-Enwtk-Bik-Kwaj-Maj

- b) Liktanur (see attached "AUGUST BIRINI MISSION CALENDAR)
- 7) LOGISTICAL SUPPORT REQUIREMENTS
 - a) Holmes & Narver, Inc.
 - Arrange travel, entry, hotel, vehicle, vans, etc., for LLNL as prescribed in William Robison Ops Plan and other authorized organizations.
 - 2) Provide necessary support staff.
 - 3) Assure that all mission related material and equipment is at the proper location to support the mission.
 - b) DOE Coordinator, Rwajalein
 - Prepare and coordinate the loading onto the Liktanur all related material and equipment for the mission. Standard equipment should include Sleeping Van and a Matson Walk-in Freezer.
 - 2) Arrange billeting, retail store ID cards, vehicles, bicycles and other related items for mission personnel during their stay at Kwajalein.
 - 3) Coordinate with Field Stations their requirements for POL and pass those requirements onto the Captain of the Liktanur.

c) DOE Coordinator, Majuro

- 1) Make arrangements to hire and transport Marshallese workers as requested in support of the mission.
- 2) Make arrangements for hotel, transportation and other related request as stated in "Operations Plan".

d) USO

- Coordinate with DOE Coordinator, Kwajalein, on mission preparations.
- Coordinate fuel requirements with all Field Station Managers through DOE Coordinator.
- 3) Provide bilieting and support as required.

7) FUNDING

General program charges are to be levied against existing Financial Plan for support at Bikini, except for specific costs incurred by the various "other" organizations. These costs will be recorded by the Holmes & Narver representative and subsequent billings will be made to users. These reimbursables will then be credited to the "Bikini Support Program".

8) REPORTS

All Party Chiefs are to file a written report to the Director of PASO with an information copy to the Assistant to the Manager for Off-Continent Operations, NV. These reports must be submitted within 30 days from the completion of the trip.

Johnston

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AUGUST RIKINI MISSION

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BARC BARC HSW HSW/A HSW/P

Pitini At II Rehabilation Scouttee

- Agricultural Consultant

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12 KADNSBEIN, G., HEW/M.
13 LAYJDAN, B., HEW/M.
15 MADESTW, C., HEW/M.
16 MADESTW, C., HEW/M.
16 MADESTW, C., HEW/M.
17 MEWAR, W., HEW/M.
18 WOLL, M., BOINDELL, BGRI.
19 UBIT, D., HEW/M.
20 PERCH, J., LLM.
21 PLEO, JOHN, MEM.
22 PERCH, R., LLM.
23 ROBLEON, P., LLM.
24 PLEO, JOHN, MEM.
25 STURE, E., BARC.
26 STURE, R., MEM.
27 STURE, ENG. HEW/M.
31 LINE ENG. HEW/M. . FUNABILI, J., PRESS : WOLL, M., Univoel: SHIPLET, R., HEN/A : 1 ANJALDK,P.,H&M/M : 2 CLESG, B., LLML 3 DRYDEW, Joe, DDE : 16 JOHNSON, J., LLNL 8 HINER, tent, HAN JACKSON R., HEN organization

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